



# SZABO SCANDIC

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## Produktinformation



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Interleukin-22, mouse recombinant (rnIL-22)

**Catalog No:** 97087  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** IL-TIF, TIFa, IL-10-related T-cell-derived-inducible factor, IL-22, ILTIF, IL-D110, zcyto18, MGC79382, MGC79384, TIFIL-23

### Background

Interleukin-22 (IL-22), also known as IL-10-related T cell-derived inducible factor (IL-TIF) was initially identified as a gene induced by IL-9 in mouse T cells and mast cells. Mouse IL-22 cDNA encodes a 179 amino acid residue protein with a putative 33 amino acids signal peptide that is cleaved to generate a 147 aa mature protein that shares approximately 79% and 22% aa sequence identity with human IL-22 and IL-10, respectively. IL-22 has been shown to activate STAT-1 and STAT-3 in several hepatoma cell lines and upregulate the production of acute phase proteins. IL-22 is produced by normal mouse T cells upon Con A activation. Mouse IL-22 expression is also induced in various organs upon lipopolysaccharide injection, suggesting that IL-22 may be involved in inflammatory responses. The functional IL-22 receptor complex consists of two receptor subunits, IL-22R (previously an orphan receptor named CRF2-9) and IL-10R $\beta$  (previously known as CRF2-4), belonging to the class II cytokine receptor family.

### Description

Interleukin-22 mouse recombinant produced in *E. coli* is a single, non-glycosylated homodimeric polypeptide chain containing 147 amino acids and having a molecular mass of 16.7 kDa. Murine IL-22 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from 1X PBS.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-22 in sterile 18 M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

### Stability

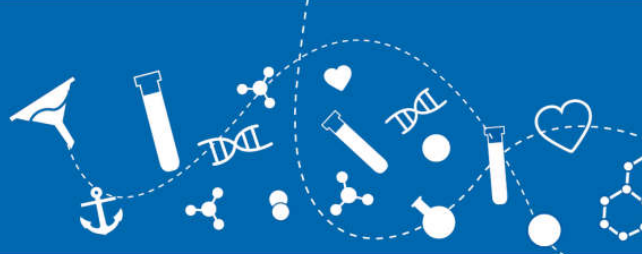
Lyophilized Interleukin-22, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL22 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

### Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Pro-Val-Asn.



**Activity**

The ED50 as determined by its ability to induce IL-10 secretion in Colo205 cells is less than 0.5 ng/ml, corresponding to a specific activity of 2,000,000 IU/mg.

**Usage**

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**